[represent symbols of major parts]

10	WDM signal	14	optical circulator
11	optical isolator	15	pump laser
12	WDM coupler	16	saturated tone
13	erbium-doped fiber (EDF)	17	power meter

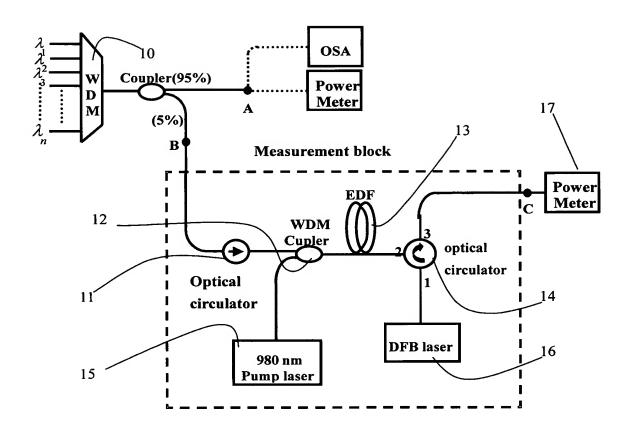


Fig 1

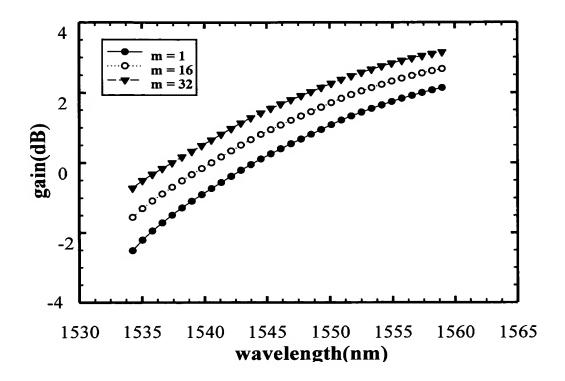


Fig 2

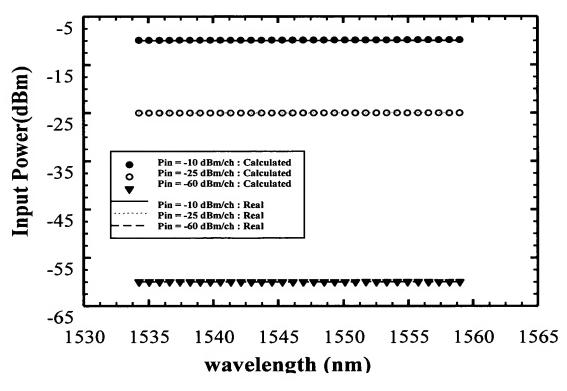


Fig 3

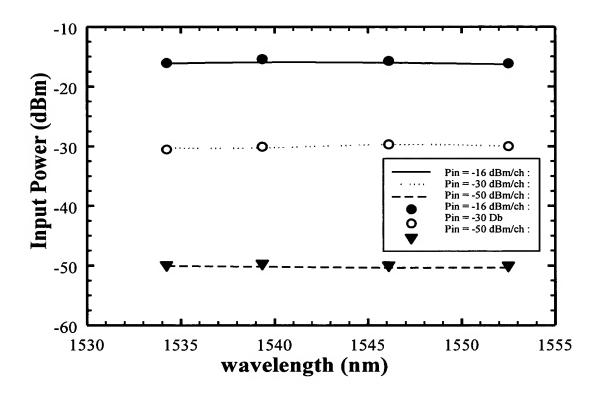


Fig 4